

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE  
(REV. 7-2005)

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER

200300815-4

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/563679

INTERNATIONAL APPLICATION NO.  
PCT/GB2004/003016

INTERNATIONAL FILING DATE  
09.07.2004

PRIORITY DATE CLAIMED  
12.07.2003

**TITLE OF INVENTION**

**A Transistor Device with Metallic Electrodes and a Method for Use in Forming Such a Device**

**APPLICANT(S) FOR DO/EO/US**

**John Christopher Rudin**

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

**Items 13 to 23 below concern document(s) or information included:**

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. **EV749201982US**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO (if known, see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold;">10/563679</div>	INTERNATIONAL APPLICATION NO. <div style="font-weight: bold;">PCT/GB2004/003016</div>	ATTORNEY'S DOCKET NUMBER <div style="font-weight: bold;">200300815-4</div>
23. Other items or information:  Written Opinion of International Searching Authority (Form PCT/ISA/237) 5 Prior Art Documents Certificate of Mailing		
The following fees have been submitted:		CALCULATIONS    PTO USE
24. <input checked="" type="checkbox"/> Basic national fee ..... \$300		\$ 300.00
25. <input type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article ..... \$0 All other situations. .... \$200		\$ 0.00
26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . . \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. .... \$100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. .... \$400 All other situations. .... \$500		\$ 400.00
<b>TOTAL OF 24, 25 and 26 =</b>		\$ 700.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.		
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)
- 100 =	0	/50 =
		0
		x \$250.00
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$ 130.00
CLAIMS	NUMBER FILED	NUMBER EXTRA
Total claims	20 - 20 =	0
		x \$50.00
Independent claims	3 - 3 =	0
		x \$200.00
MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> + \$360.00		\$ 0.00
<b>TOTAL OF ABOVE CALCULATIONS =</b>		\$ 830.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		\$ 0.00
<b>SUBTOTAL =</b>		\$ 830.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$ 0.00
<b>TOTAL NATIONAL FEE =</b>		\$ 830.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +		\$ 0.00
<b>TOTAL FEES ENCLOSED =</b>		\$ 830.00
		Amount to be \$
		Amount to be \$

10/563679

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

- a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 08-2025 in the amount of \$ \$830.00 to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 08-2025. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

**HEWLETT-PACKARD DEVELOPMENT COMPANY**  
Intellectual Property Administration  
P.O. Box 272400  
Fort Collins, CO 80527-2400

SIGNATURE

Scott A. Horstemeyer

NAME

34,183

REGISTRATION NUMBER

January 6, 2005

DATE

Filed/Date Mailed: January 6, 2006  
Applicant: John C. Rudin  
Docket #: 050839-1050  
Title: Transistor Device with Metallic Electrodes and a Method  
EM #: EV749201982US

**PATENT AND TRADEMARK OFFICE  
(RECEIVING OFFICE) STAMP**  
HEREON ACKNOWLEDGES RECEIPT  
OF THE BELOW IDENTIFIED  
APPLICATION AND PAPERS:

USPTO STAMP

10/563679

Fees: ☒ Express Cert. of Mailing  
Pynt ☒ Fees: \$830.00  
Form ☒ Check  
Dep. Acct: 08-2025 ☒  
Fee Calculation Sheet ☐

☐ PCT/RO/101 ( ) Pages  
☐ PCT Application Consisting of:  
Pages of Specification  
Pages of Claims  
1 Page of Abstract  
Pages of Dwgs. ☐ Formal ☐ Informal

☐ Response to Invitation to  
Correct Defects Including:  
☐ Replacement Pages ( )  
☐ Specification ( )  
☐ Claims ( )  
☐ Abstract  
☐ Formal Drawings ( )  
☐ Identify Serial Number  
☐ 1<sup>st</sup> Prior. ☐ 2<sup>nd</sup> Prior.  
☐ Declaration/Power Attorney  
☐ Original ☐ Copy

☐ Article 19 Amendment Including:  
☐ Article 34 Amendment Including:  
☐ Explanation of Replac. Pgs.  
☐ Replacement Pages ( )  
☐ Other:

☐ Demand - Article 31 Including:  
☐ Demand for Chapter II  
☐ Copy of filed Art. 19/34 Amd.  
☐ Other:

☐ Response to Written Opinion  
☐ Explanation of Replac. Pgs.  
☐ Replacement Pages ( )

☒ Other: Copy of Written Opinion

Person Mailing: JLC

Responsible Atty: SAH

**IAP3 Rec'd PCT/PTO 06 JAN 2006**

Filed/Date Mailed: January 6, 2006  
Applicant: John C. Rudin  
Docket #: 200300815-4  
Title: Transistor Device with Metallic Electrodes and a Method  
EM #: EV749201982US

**PATENT AND TRADEMARK OFFICE  
(RECEIVING OFFICE) STAMP**  
HEREON ACKNOWLEDGES RECEIPT  
OF THE BELOW IDENTIFIED  
APPLICATION AND PAPERS:

USPTO STAMP

10/563679

Fees: ☒ Express Cert. of Mailing  
Pynt ☒ Fees: \$830.00  
Form ☒ Check  
Dep. Acct: 08-2025 ☒  
Fee Calculation Sheet ☐

☐ PCT/RO/101 ( ) Pages  
☐ PCT Application Consisting of:  
Pages of Specification  
Pages of Claims  
1 Page of Abstract  
Pages of Dwgs. ☐ Formal ☐ Informal

☐ Response to Invitation to  
Correct Defects Including:  
☐ Replacement Pages ( )  
☐ Specification ( )  
☐ Claims ( )  
☐ Abstract  
☐ Formal Drawings ( )  
☐ Identify Serial Number  
☐ 1<sup>st</sup> Prior. ☐ 2<sup>nd</sup> Prior.  
☐ Declaration/Power Attorney  
☐ Original ☐ Copy

☐ Article 19 Amendment Including:  
☐ Article 34 Amendment Including:  
☐ Explanation of Replac. Pgs.  
☐ Replacement Pages ( )  
☐ Other:

☐ Demand - Article 31 Including:  
☐ Demand for Chapter II  
☐ Copy of filed Art. 19/34 Amd.  
☐ Other:

☐ Response to Written Opinion  
☐ Explanation of Replac. Pgs.  
☐ Replacement Pages ( )

☒ Other: Copy of Written Opinion

Person Mailing: JLC

Responsible Atty: SAH

**IAP3 Rec'd PCT/PTO 06 JAN 2006**

BEST AVAILABLE COPY